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10/663,472	09/15/2003	Binod P. Gangadharan	063435-413715	3749

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EXAMINER	
HENRY, MARIEGEORGES A	

ART UNIT	PAPER NUMBER
2455	

NOTIFICATION DATE	DELIVERY MODE
11/10/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

uspt@polsinelli.com

Office Action Summary	Application No.	Applicant(s)	
	10/663,472	GANGADHARAN ET AL.	
	Examiner	Art Unit	
	MARIE GEORGES HENRY	2455	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *12 August 2011*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5)☒ Claim(s) *1-3,5-7,9,10 and 29-31* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-3,5-7,9,10 and 29-31* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *15 September 2011* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

12)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. This communication is in response to the amendment filed on 8/12/2011. Claims 1-3, 5-7, 9-10, and 29-31 are pending. Claims 1 -3, 5-7, 9-10, and 29-31 are related to frameworks for integrating information systems.

2. The rejection of claims 29-32 under 35 U.S.C. 101 is withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, ff the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-3, 5-7, and 29-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Starkovich** et al. (hereinafter "Starkovich") (**US 6, 993, 585 B1**) in view of **Helgeson** et al. (hereinafter "Helgeson") (**US 7, 072, 934 B2**).

Regarding claim 1, Starkovich a method of connecting an application server to an information system, said method comprising:

providing, utilizing a hardware application server, a generic connector interface on said hardware application server (Starkovich, column 7, lines 41- 42, fig. 4, a generic gateway is disclosed in a NT server), receiving information related to an information system at said hardware application server, said information system having a first interface, said information system accessible utilizing said first interface (Starkovich,

column 6, lines 34-39, fig. 1 a Distributed Transaction Processing is transmitting data and status information to a Transaction Gateway client);

generating, utilizing said hardware application server, a customized connector interface on said hardware application server by modifying said generic connector interface based on said received information by: wherein said customized connector interface provides access to said information system through said first interface of said information system (Starkovich, column 8, lines 38-47, fig.6, clients of a WebTx access enterprise applications using a processing information made of custom gateway).

Although Starkovich discloses a feature to built customer own gateway to interface own application, he does not explicitly disclose the generic connector interface comprising a Generic Resource Adaptor Archive (GRAR) file; adding said first interface to the Generic Resource Adaptor Archive (GRAR) file, and creating a Customized Resource Adaptor Archive (CRAR) file by modifying a deployment descriptor of the Generic Resource Adaptor Archive (GRAR) file; and connecting, utilizing said hardware application server, said information system to said hardware application server via said customized connector interface utilizing the Customized Resource Adaptor Archive (CRAR) file.

Helgeson discloses the generic connector interface comprising a Generic Resource Adaptor Archive (GRAR) file (Helgeson, column 56, lines 24-34, a generic data mode of command for driving an interface is in XML); Helgeson discloses a method adding said first interface to the Generic Resource Adaptor Archive (GRAR) file (Helgeson, column 58, lines 4-14, a new interaction component is added), and creating a Customized Resource Adaptor Archive (CRAR) file by modifying a deployment descriptor of the Generic Resource Adaptor Archive (GRAR) file(Helgeson, column 54, lines 49-56, a user interface customization is disclosed based on XML, XSLT, and Java Technologies) ; and

connecting, utilizing said hardware application server, said information system to said hardware application server via said customized connector interface utilizing the Customized Resource Adaptor Archive (CRAR) file (Helgeson, column 35, lines 19-31, an application server is disclosed being used for creating an interface using a deployment descriptor).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Helgeson flexible interface feature into Starkovich generic connection for integrating information method in order to create generic connection for information method with a flexible interface feature in order to respond quickly to various network requirements of network devices.

Regarding claim 2, Starkovich and Helgeson disclose the method as recited in claim 1, wherein said providing of a generic connector interface comprises providing a software package (Starkovich, column 8, lines 34-37, Gateway interface customer own application to an OLTP enterprise application).

Regarding claim 3, Starkovich and Helgeson disclose the method as recited in claim 2, wherein said information system is a relational database that is compliant with Java DataBase Connection (JDBC) architecture (Starkovich, column 7, lines 66-67, class definitions used are JavaGate compatible).

Regarding claim 5, Starkovich and Helgeson disclose the method as recited in claim 1.

Although Starkovich discloses a feature to built customer own gateway to interface own application, he does not explicitly disclose a feature wherein modifying the deployment descriptor comprises editing at least one of a server Name, a port number, a user name, a password, a database name, a data source name, a description, a

network protocol, a role name, a login timeout, driver properties, a delimiter, or a class name.

Helgeson discloses the method wherein modifying the deployment descriptor comprises editing at least one of a server Name, a port number, a user name, a password, a database name, a data source name, a description, a network protocol, a role name, a login timeout, driver properties, a delimiter, or a class name (Helgeson, column 73, lines 25-30, domain name is disclosed being edited).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Helgeson flexible interface feature into Starkovich generic connection for integrating information method in order to create generic connection for information method with a flexible interface feature in order to respond quickly to various network requirements of network devices.

Regarding claim 6, Starkovich and Helgeson disclose the method as recited in claim 1, wherein said receiving of information related to said information system comprises: receiving one or more parameters (Starkovich, column 8, lines 38-39, key software component are part of the access relationship between a WebTx and enterprise applications).

Regarding claim 7, Starkovich and Helgeson disclose the method as recited in claim 6, wherein said receiving of information related to said information system further comprises receiving said one or more parameters as input through a Graphical User Interface (GUI) (Starkovich, column 7, lines 44-47, data is received in a format that is understandable by a URL).

Regarding claim 29, Starkovich a computer readable medium including computer program code for connecting an application server to an information system, said computer readable medium comprising:

computer program code, stored in at least one computer readable medium and executable by at least one processing unit, for providing a generic connector interface (Starkovich, column 7, lines 41- 42, fig. 4, a generic gateway is disclosed in a NT server), computer program code, stored in the at least one computer readable medium and executable by the at least one processing unit, for receiving information related to an information system, said information system having a first interface, said information system accessible utilizing said first interface (Starkovich, column 6, lines 34-39, fig. 1 a Distributed Transaction Processing is transmitting data and status information to a Transaction Gateway client);

computer program code, stored in the at least one computer readable medium and executable by the at least one processing unit (Starkovich, column 5, lines 1-5, a storage feature is disclosed), for generating a customized connector interface by modifying said generic connector interface based on said received information, wherein said customized connector interface provides access to said information system through said first interface of said information system (Starkovich, column 8, lines 38-47, fig.6, clients of a WebTx access enterprise applications using a processing information made of custom gateway).

Although Starkovich discloses a feature to built customer own gateway to interface own application, he does not explicitly disclose the generic connector interface Comprising a Generic Resource Adapter Archive (GRAR) file; adding said first interface to the Generic Resource Adaptor Archive (GRAR) file, and creating a Customized Resource Adaptor Archive (CRAR) file by modifying a deployment descriptor of the Generic Resource Adaptor Archive (GRAR) file; and computer program code, stored in the at least one computer readable medium and executable by the at least one processing unit, for connecting said information system to said application server via said customized connector interface utilizing the Customized Resource Adaptor Archive (CRAR)file.

Helgeson discloses the generic connector interface Comprising a Generic Resource Adapter Archive (GRAR) file (Helgeson, column 56, lines 24-34, a generic data mode of command for driving an interface is in XML); by adding said first interface to the Generic Resource Adaptor Archive (GRAR) file (Helgeson, column 58, lines 4-14, a new interaction component is added), and creating a Customized Resource Adaptor Archive (CRAR) file by modifying a deployment descriptor of the Generic Resource Adaptor Archive (GRAR) file (Helgeson, column 54, lines 49-56, a user interface customization is disclosed based on XML, XSLT, and Java Technologies); and

computer program code, stored in the at least one computer readable medium and executable by the at least one processing unit, for connecting said information system to said application server via said customized connector interface utilizing the Customized Resource Adaptor Archive (CRAR) file (Helgeson, column 35, lines 19-31, a application server is disclosed being used for creating an interface using a deployment descriptor).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Helgeson flexible interface feature into Starkovich generic connection for integrating information systems in order to create generic connection for information systems with a flexible interface feature in order to respond quickly to various network requirements of network devices.

Regarding claim 30, Starkovich and Helgeson disclose the computer readable medium as recited in claim 29, wherein said computer programming code, stored in at least one computer readable medium and executable by at least one processing unit, for providing a generic connector interface comprises: providing a software package (Starkovich, column 8, lines 34-37, Gateway interface own application to an OLTP enterprise application is disclosed).

Regarding claim 31, Starkovich and Helgeson disclose the computer readable medium as recited in claim 30, wherein said information system is a relational database is compliant with a Java DataBase Connection (JDBC) architecture (Starkovich, column 7, lines 60-67, WebTx system having a Java Libraries available and using a software development is disclosed).

4. Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Starkovich,** in view of **Helgeson,** and further in view of **Ng** (**US 6, 411, 956 B1**).

Regarding claim 9, Starkovich and Helgeson disclose the method as recited in claim 1.

Although Starkovich and Helgeson disclose the feature to built customer own gateway to interface own application, they do not disclose the feature wherein said connecting of said information system to said hardware application server comprises: encapsulating said first interface by a second interface that is implemented after said generic connector interface is customized. Ng discloses the feature wherein said connecting of said information system to said hardware application server comprises: encapsulating said first interface by a second interface that is implemented after said generic connector interface is customized (Ng, column 3, lines 40-44, instead of creating a new physical database connection for each connection request a global transaction identifier is used in order to make the connection).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Helgeson flexible interface feature and Ng flexible connection feature into Starkovich generic connection for integrating information method in order to create generic connection for information method with a flexible interface feature and a flexible connection feature in order to respond quickly to various network requirements of a network devices and to permit a transparent translation between different communication protocols.

Regarding claim 10, Starkovich and Helgeson disclose the method as recited in claim 1.

Although Starkovich discloses the feature to built customer own gateway to interface own application, he does not explicitly disclose the feature wherein generating a customized connector interface comprises: generating a second interface that can encapsulate the first interface. Ng discloses the feature wherein generating a customized connector interface comprises: generating a second interface that can encapsulate the first interface (Ng, column 3, lines 40-44, instead of creating a new physical database connection for second connection request a global transaction identifier is used in order to make the connection).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Helgeson flexible interface feature and Ng flexible connection feature into Starkovich generic connection for integrating information method in order to create generic connection for information method with a flexible interface feature and a flexible connection feature in order to respond quickly to various network requirements of a network devices and to permit a transparent translation between different communication protocols.

5. The prior arts made of record and not relied upon are considered pertinent to applicant's disclosure. Fan et al. (US 7, 457, 845 B2) is made part of the record because of the teaching of generic buffer. Scheibli et al. (US 7,318, 148 B2) is made part of the record because of the teaching of network interface. Ahrens et al. (US 7, 076, 570 B2) is made part of the record because of the teaching of connectors.

Response to Argument

7. **Applicant argues in substance that:**

A) prior art does not disclose "generating, utilizing said hardware application server, a customized connector interface on said hardware application server by modifying said generic connector interface based on said information received by...wherein said

customized connector interface provides access to said information system through said first interface of said information system." (Remark, page 6, lines 4-6).

In response to A; Starkovich discloses;

FIG. 5 is a functional block diagram of WebTx components utilized within the Microsoft NT environment. This figure shows specific Gateway implementations within the Windows NT node. The SimpleGate Gateway 236 is specifically utilized as a test tool. It merely echoes a request. The TUXGate Gateway 240 provides generalized access to OLTP services through BEA TUXEDO 266. BEA TUXEDO acts as the hub for a distributed enterprise and Internet 3-tier applications. It provides **an open environment that supports a wide variety of clients, databases, networks, legacy systems, and communications options.** The FileGate Gateway 244 works in conjunction with a specific OLTP service to access textual files on the Unisys 2200 node. ViewGate 248 provides generalized access to OLTP services on the Unisys 2200 note (specifically HTML output). JGate 252 provides generalized Java applet access to **OLTP services on the Unisys 2200 node.** The DGate Gateway 256 provides generalized DCOM access to OLTP services on the Unisys 2200 node. The MapperGate Gateway 260 provides generalized access to Mapper applications within the Microsoft Windows NT environment. A Custom Gateway, such as shown at 264, provide a way for a customer to **build their own Gateway to interface their own applications to an OLTP enterprise application.** (40) FIG. 6 is a diagram showing the relationship of the key software components of WebTx which allow clients to access enterprise applications. **The Unisys ClearPath IX Server 310** includes both an **OS 2200 environment 312 and a Windows NT environment 314.** All ClearPath HMP IX Servers 310 include **On-Line Transaction Processing (OLTP) software that complies with the X/Open model for Distributed Transaction Processing (DTP).** This enables client/server access to existing OLTP applications as well as allowing development of new, distributed client/server applications.(Starkovich, column 8, lines 14-48)

As cited in the paragraph above, a customer is using a custom Gateway to build his own gateway to interface his own application by using a OLTP services on a Unisys

2200 note, where an open environment that supports a wide variety of clients, databases, networks, legacy systems, and communication options is available; therefore, Starkovich's prior feature meets the claim limitation.

Applicant argues in substance that: B) prior art does not disclose "Adding a First Interface to the Generic Resource Adaptor Archive (GRAR) File" (Remark, page 7, lines 24-26).

In response to B; Helgeson discloses:

394) **Adding New Interaction Components**

(395) If the guidelines for model page design are followed then adding new interaction components (e.g., buttons) is a very simple task. Adding a new widget (e.g., Cancel button) means adding a new widget to the widget section of the model page AND changing the view page to include the new widget. Since the widget section is a separate section of the model page, software engineers (and perhaps UI engineers) can make the required change without disturbing/interfering with any other part of the model page. **(Helgeson, column 58, lines 4-14)**

Helgeson is introduced mostly because of the feature of adding new interaction component as can be seen from the paragraph above where a new feature is added to a model page design that is software acting as interface to allow a viewer to see a page (Helgeson, column 58, lines 4-14, a new interaction component is added) although Helgeson discloses also a user interface customization based on XML, XSLT, and Java Technologies (Helgeson, column 54, lines 49-56) that is in the same field of as Starkovich's prior art; therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Helgeson flexible interface feature into Starkovich generic connection for integrating information method in order to create generic connection for information method with a flexible interface feature in

order to respond quickly to various network requirements of network devices; Therefore, the combination of Starkovich and Helgeson's prior features meet the claim limitation.

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication from the examiner should be directed to **Marie Georges Henry whose telephone number is (571) 270-3226**. The examiner can normally be reached on Monday to Friday 7:30am - 4:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217- 9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Marie Georges Henry/
Examiner, Art Unit 2455

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Supervisory Patent Examiner, Art Unit 2455